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ORIGINAL CL BY 235779
☐ DECL ☒ REVIEW ON 2010
 EXT BYND G YRS BY 5 AMC
 REASON 3 d (3)

PROGRESS REPORT
 FOR
 MONTH OF JULY 1959

DOC <u>27</u>	REV DATE <u>29 APR 1960</u>	BY <u>018313</u>
ORIG COMP <u>33</u>	OPI <u>56</u>	TYPE <u>3</u>
ORIG CLASS <u>M</u>	PAGES <u>1</u>	REV CLASS <u>C</u>
JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: HR 10-2

30 TO 1000 MC ANTENNA

Purpose: To design, develop, and fabricate five antennas for a frequency range of 30-1000 mc. The antennas will be for outdoor use and be capable of being disassembled into 6 foot lengths or less.

Personnel: Electrical Engineers:

Status: Initial work on the project indicates that a rather new development in the log periodic principle may be desirable for this system. Briefly, the antenna would be one of zero γ angle and zero tooth width. This gives a planar structure and eliminates the end pieces of the transverse elements. Such a structure has excellent electrical properties and, in many ways, is more desirable mechanically than the type employed in the CS-8 system.

25X1

Scale models are currently being investigated to determine optimum design parameters.

Future Plans: Investigation will continue on a scale model basis for determination of the design parameters. Initial work will be started on the mechanical design.

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